User Guide

Linksys AE1000 | High Performance Wireless-N USB Adapter

Contents

Chapter 1: Product Overview 1
LED 1

Chapter 2: Installation 2
Installation 2

Chapter 3: Wireless Network Configuration 4
Windows 7 4
Windows Vista 5
Windows XP 7

Appendix A: Troubleshooting 8

Appendix B: Specifications 9

Chapter 1: Product Overview

Thank you for choosing the Linksys AE1000 High Performance Wireless-N USB Adapter. Using the latest wireless networking technology, the Adapter adds or upgrades wireless connectivity on your Windows-based desktop or laptop computer. To help protect your data and privacy, you can use Wi-Fi Protected Access 2 (WPA2) encryption to protect your wireless connection.

LED

Link (Blue) The LED flashes when there is wireless network activity.

Storing the Cap

When the Adapter is plugged into the USB Extension Base or your computer's USB port, you can store the cap by attaching it to the Adapter.

To store the cap, push it onto the top of the Adapter until it fits snugly.

USB Extension Base

The Adapter comes attached to its USB Extension Base. Using the Adapter in its Base may often improve wireless signal performance, especially with desktop computers that may be located under desks or tabletops.

To use the USB Extension Base, make sure the Adapter is connected to the Base, and then connect the USB Extension Base to a USB port on your computer or laptop.

Chapter 2: Installation

This chapter describes the procedure for installing the Adapter.

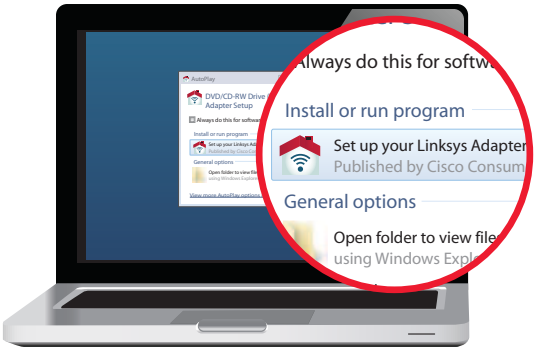
Installation

To install the Adapter:

1. Insert the CD into your CD-ROM drive.

Insert CD

2. Click **Set up your Linksys Adapter**.



Set up Your Linksys Adapter

If you do not see this, access setup on the CD directly. To do so, perform the following steps for your specific operating system:

Windows 7

a. Go to **Start > Computer**.

b. Double-click your CD-ROM drive.

Windows Vista

a. Go to **Start > Computer**.

b. Double-click your CD-ROM drive.

Windows XP

a. Go to **Start > My Computer** and select your CD-ROM drive.

b. Double-click **Setup.exe**.

3. Read the Software End User License Agreement. To accept the agreement and continue with the installation, click **Next**.

License Agreement

4. Insert the Adapter into an available USB port on your computer.

Install Linksys AE1000

5. An Easy Setup Key helps you quickly connect to your wireless hotspot or router. If you do not have an Easy Setup Key, select **No, I don't have an Easy Setup Key**. If you have an Easy Setup Key, select **Yes, I have an Easy Setup Key**. Click **Next**.

NOTE: Cisco Valet wireless hotspots come with an Easy Setup Key. Cisco Valet wireless hotspots and some Linksys routers also let you create one from your own USB flash drive. (You do not need an Easy Setup Key to complete installation.)

Do You Have an Easy Setup Key?

If you do not have an Easy Setup Key, go to step 6. If you have an Easy Setup Key, go to step 8.

6. A list of available wireless networks appears. Select your network. Click **Next**.

Connect to a Wireless Network

7. If your network does not use wireless security, go to step 9.

   If your network uses wireless security, enter the wireless password for your type of security:

   - Wired Equivalent Privacy (WEP): Enter the WEP key.
   - Wi-Fi Protected Access (WPA/WPA2): Enter the passphrase (also known as a pre-shared key).

   Click **Next**. Go to step 9.

Enter the Wireless Password

8. Follow the on-screen prompts to use your Easy Setup Key. Click **Next**.

Insert your Easy Setup Key

9. The installation is complete. Click **Close**.

You are Now Connected to Your Wireless Network

NOTE: If you have any problems during the installation process, refer to the Frequently Asked Questions in the setup software, or use a computer with an active Internet connection to visit **www.linksys.com/support**.

Chapter 3: Wireless Network Configuration

To configure the Adapter's wireless connection settings, use a wireless network configuration utility. If you have installed such a utility on your computer, or if your computer came with one already installed, refer to that utility's documentation for instructions on use. Otherwise, follow the instructions in the appropriate section below to use your operating system's built-in utility: **Windows 7**, **page 4**, **Windows Vista**, **page 5**, or **Windows XP**, **page 7**.

Windows 7

After you have installed the Adapter, the Wireless Network Configuration utility icon appears on your computer's system tray.

Wireless Network Configuration Utility Icon

(If you do not see the icon, click the *Show hidden icons* arrow in the system tray.)

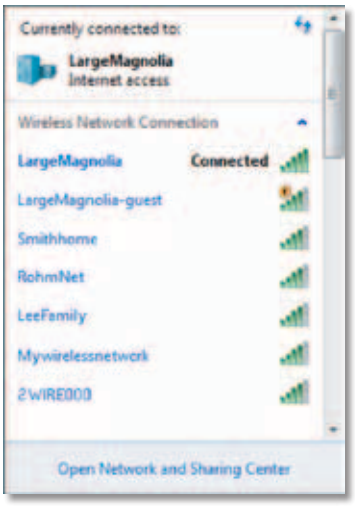
When your mouse pointer hovers over the icon, the status information of your wireless connection appears.

Wireless Connection Status

New Wireless Connection

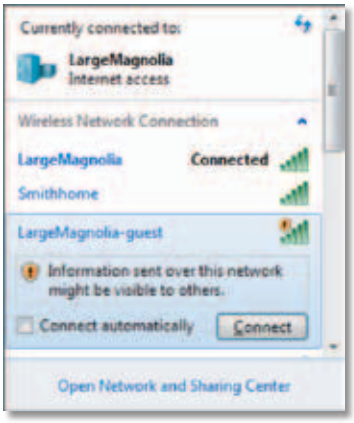
To connect to a different wireless network:

1. Click the Wireless Network Configuration utility icon. A list of available wireless networks appears.



Available Wireless Networks

2. Select your network, and then click **Connect**.

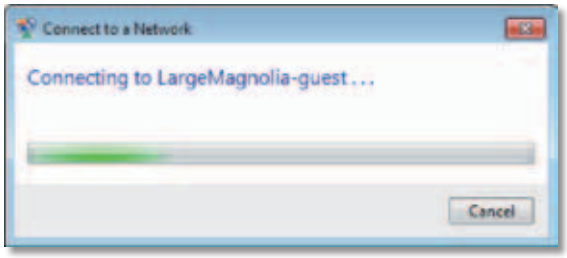


Select Network

3. If your network does not use wireless security, go to step 5.
4. Enter the security key, Wired Equivalent Privacy (WEP) key, or Wi-Fi Protected Access (WPA/WPA2) passphrase (also known as a pre-shared key), depending on your type of security. Click **OK**.

Secured Network

5. This screen appears while the Adapter connects to your network. Do not cancel, unless you want to end the connection.



Connecting to Network

NOTE: For help with the Wireless Network Configuration utility, refer to Help and Support. Click **Start** > **Help and Support**.

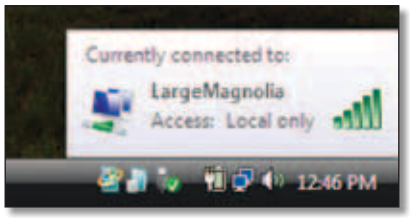
Your computer is now connected to your wireless network.

Windows Vista

After you have installed the Adapter, the Wireless Network Configuration utility icon appears on your computer's system tray.

Wireless Network Configuration Utility Icon

When your mouse pointer hovers over the icon, the status information of your wireless connection appears.

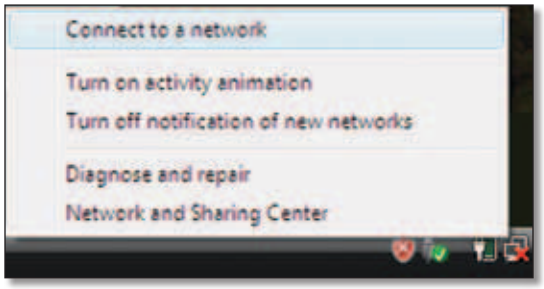


Wireless Connection Status

New Wireless Connection

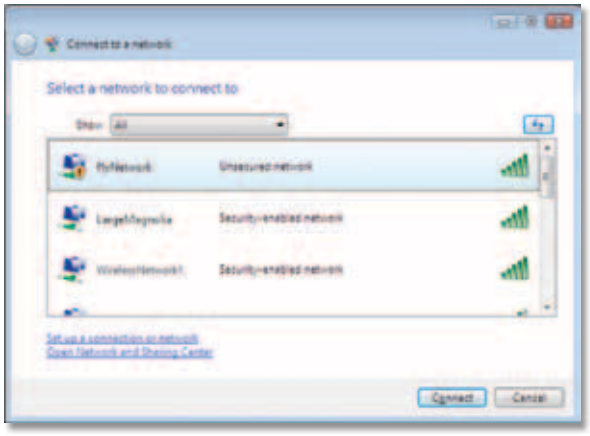
To connect to a different wireless network:

1. Right-click the Wireless Network Configuration utility icon.
2. Click **Connect to a network**.



Utility Menu

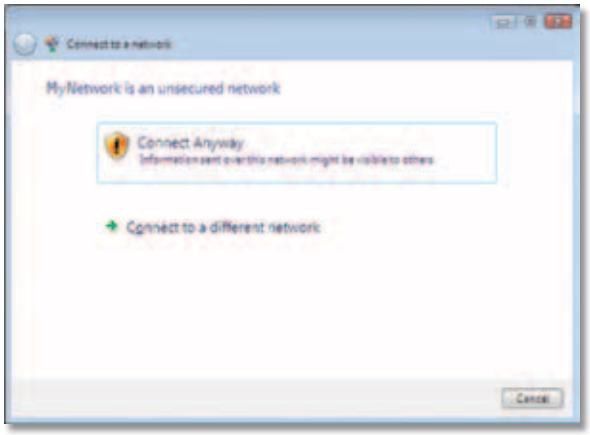
3. Select your network, and then click **Connect**.



Select Network

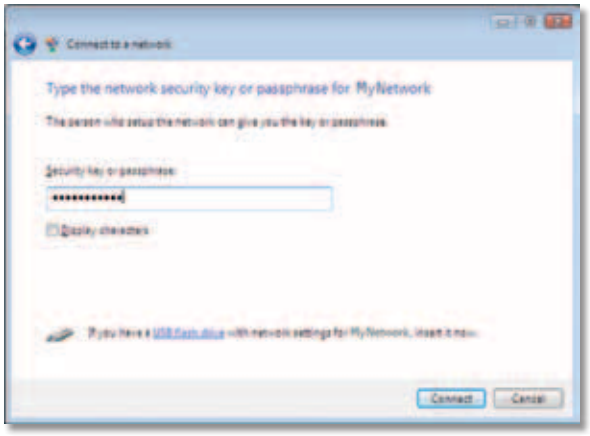
4. If your network uses wireless security, go to step 5.

   If your network does not use wireless security, this screen appears. To connect to your unsecured network, click **Connect Anyway** and go to step 7.



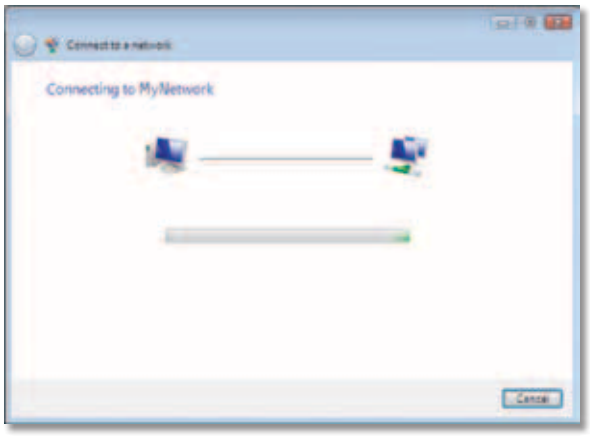
Unsecured Network

5. Enter the security key, Wired Equivalent Privacy (WEP) key, or Wi-Fi Protected Access (WPA/WPA2) passphrase (also known as a pre-shared key), depending on your type of security. Click **Connect**.



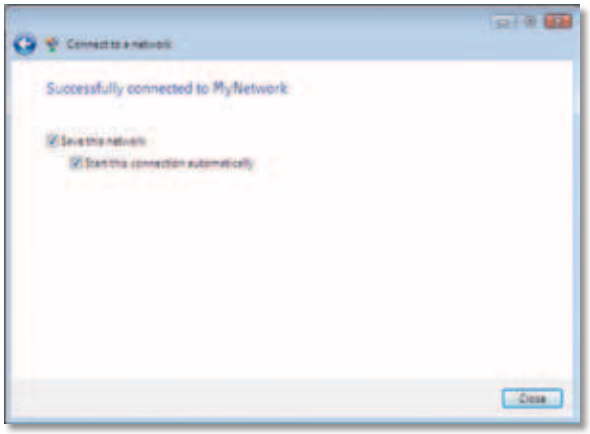
Secured Network

6. This screen appears while the Adapter connects to your network. Do not cancel, unless you want to end the installation.



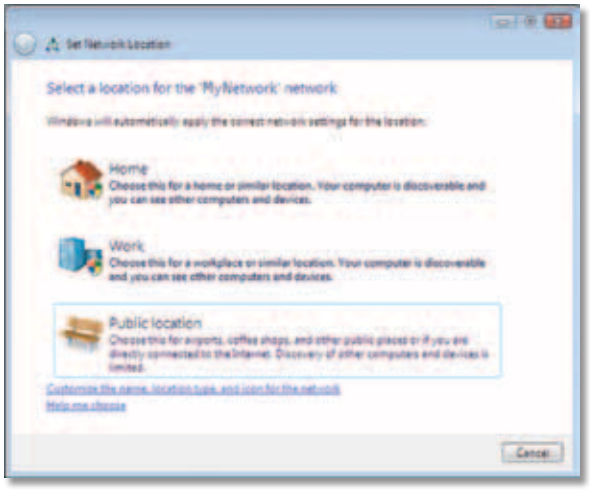
Connecting to Network

7. This screen appears when you are connected to your network. Select **Save this network**, if you want to save your settings. Click **Close**.



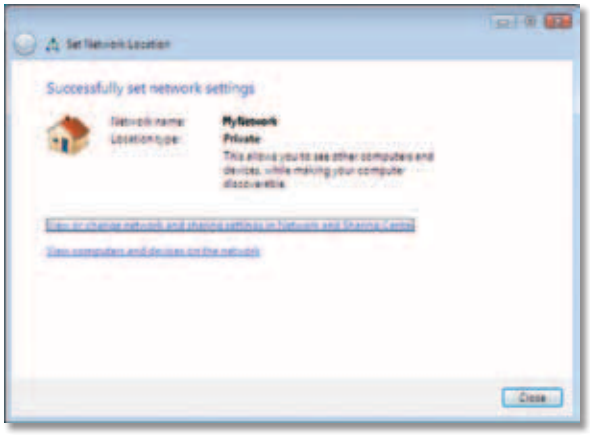
Connected to Network

8. The *Set Network Location* screen may appear. This screen helps apply the correct settings for your type of location. Select **Home**, **Work**, or **Public location**.



Select Network Location

9. This screen varies according to the selected location. Click **Close**.



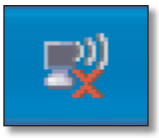
Network Settings Saved

NOTE: For help with the Wireless Network Configuration utility, refer to Help and Support. Click **Start** > **Help and Support**.

Your computer is now connected to your wireless network.

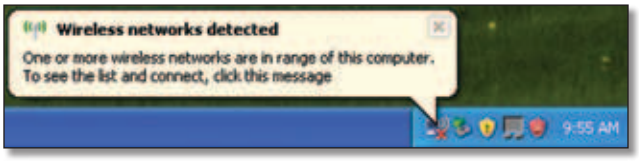
Windows XP

After you have installed the Adapter, the Windows XP Wireless Zero Configuration Utility icon appears on your computer's system tray.



Wireless Zero Configuration Utility Icon

When your mouse pointer hovers over the icon, the status information of your wireless connection appears.

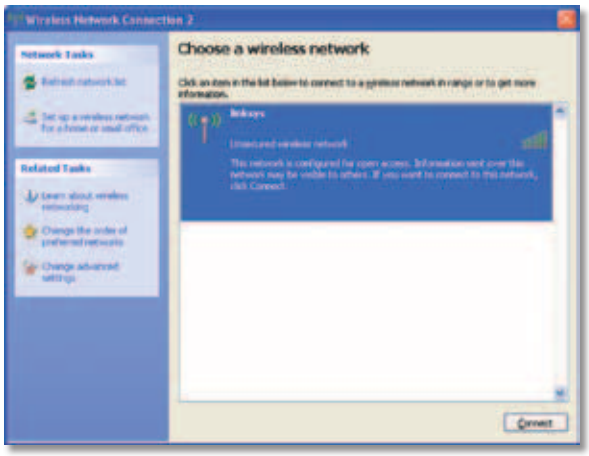


Wireless Connection Status

New Wireless Connection

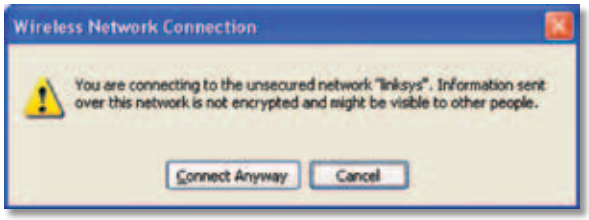
1. Right-click the Windows XP Wireless Zero Configuration icon in your computer's system tray, and then select **View Available Wireless Networks**.
2. A window displays the available wireless networks. Select the network that you want and click **Connect**.

   If the network uses wireless security, go to step 4. Otherwise, continue to step 3.



Available Wireless Network

3. Click **Connect Anyway** to connect the Adapter to your unsecured network, and then go to step 5.



No Wireless Security

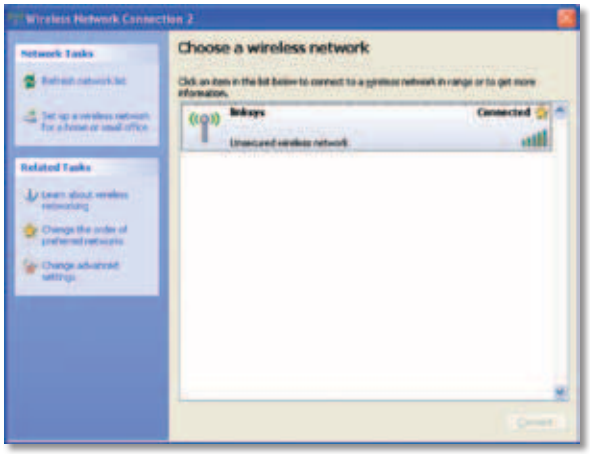
4. If your network uses Wired Equivalent Privacy (WEP) wireless security, enter the WEP Key in the *Network key* and *Confirm network key* fields. If your network uses Wi-Fi Protected Access (WPA/WPA2) wireless security, enter the passphrase in the *Network key* and *Confirm network key* fields. Click **Connect**.

Wireless Security

NOTE: Windows XP Wireless Zero Configuration does not support the use of a WEP passphrase. Enter the exact WEP key used by your wireless router or access point.

NOTE: If your network is using WPA2 security, make sure that you have installed the Update for Windows XP (KB893357), available at **www.microsoft.com**.

5. Your wireless network will appear as Connected when your connection is active.



Wireless Network Connection

NOTE: For help with the Wireless Network Configuration utility, refer to Help and Support. Click **Start** > **Help and Support**. Enter **wireless** in the *Search* field, and then press **Enter**.

Your computer is now connected to your wireless network.

Appendix A: Troubleshooting

Your computer does not recognize the Adapter.

Make sure that the Adapter is properly inserted into your computer's USB slot and/or USB Extension Base.

The Adapter does not work properly.

Remove the Adapter, and then reinsert it into the computer's USB slot.

Your computer cannot communicate with the other computers on your wireless network.

1. Make sure that the computers are powered on.
2. Make sure that the Adapter is configured with the same Wireless Network Name (also called the SSID or Service Set Identifier) and wireless security settings as the other computers on your wireless network.

WEB: If your questions are not addressed here, refer to our AE1000 support section on the web, **www.linksys.com/support/AE1000**

Appendix B: Specifications

Model Name	Linksys AE1000
Description	High Performance Wireless-N USB Adapter
Model Number	AE1000
Standards	802.11a, 802.11b, 802.11g, 802.11n
LEDs	Link/Act
Number of Antennas	2 Internal Antennas
Transmitted Power	2.4 GHz @ 11 Mbps data rate: 18 dBm ± 1.5 dBm 2.4 GHz @ 54 Mbps data rate: 14 dBm ± 1.5 dBm 5 GHz @ 54Mbps data rate: 12 dBm ± 1.5 dBm 2.4 GHz, 11N (MCS0, HT20/40): 18 dBm ± 1.5 dBm 2.4 GHz, 11N (MCS8, HT20/40): 18 dBm ± 1.5 dBm 2.4 GHz, 11N (MCS15, HT20/40): 12 dBm ± 1.5 dBm 5 GHz, 11N (MCS0, HT20/40): 16 dBm ± 1.5 dBm 5 GHz, 11N (MCS8, HT20/40): 16 dBm ± 1.5 dBm 5 GHz, 11N (MCS15, HT20/40): 10 dBm ± 1.5 dBm
Receive Sensitivity	-84 dBm @11 Mbps -70 dBm @54 Mbps -83 dBm @2.4 GHz/5 GHz, MCS0, HT20 -80 dBm @2.4 GHz/5 GHz, MCS0, HT40 -83 dBm @2.4 GHz/5 GHz, MCS8, HT20 -80 dBm @2.4 GHz/5 GHz, MCS8, HT40 -65 dBm @2.4 GHz/5 GHz, MCS15, HT20 -62 dBm @2.4 GHz/5 GHz, MCS15, HT40
Antenna Gain in dBi	802.11a: 5 GHz => 4 dBi 802.11g: 2.4 GHz => TX0: 0.5 dBi, TX1: 1.4 dBi
Power Consumption	TX (2.4 GHz): 330 mA, HT20; 340 mA HT40 at 5V TX (5 GHz): 400 mA, HT20; 430 mA HT40 at 5V RX (2.4 GHz): 140 mA, HT20; 160 mA HT40 at 5V RX (5 GHz): 150 mA, HT20; 180 mA HT40 at 5V Standby: 150 mA Radio Off: 20 mA
Security Features	WEP, WPA & WPA2 Personal, WPA & WPA2 Enterprise
Security Key Bits	Up to 128-Bit Encryption
OS Requirements	Up-to-date Windows XP, Windows Vista, Windows Vista 64-bit Edition, or Windows 7

Environmental

Dimensions	3.15" x 1.00" x 0.49" (79.9 x 25.4 x 12.4 mm)
Weight	0.39 oz (11 g)
Certification	FCC, CE, IC, UL, RoHS, WEEE, IDA, C-Tick, Wi-Fi A/B/G/N
Operating Temp.	32 to 104ºF (0 to 40ºC)
Storage Temp.	-4 to 158ºF (–20 to 70ºC)
Operating Humidity	10 to 85% Noncondensing
Storage Humidity	5 to 90% Noncondensing

Specifications are subject to change without notice.

www.linksys.com/support

Cisco, the Cisco logo, and Linksys are trademarks or registered trademarks of Cisco and/or its affiliates in the United States and certain other countries. All other trademarks mentioned in this document or website are the property of their respective owners.

© 2010 Cisco and/or its affiliates. All rights reserved.